FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

As required by the Provisions of the ASME Code Rules, Section VIII, Division I

Manufactured for Hercules, Incorporated (Name and address of Purchaser) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Hortz, O'Vert.) Kind (Trank, Jacketed) real Exch.) Vessel No. (2158-2) (State & State No.) Type (Wided, Dish.) Single, Lap, Jul.) Type (Trank, Jacketed) Real Exch.) Nominal (Trank, Jacketed) Real Exch.) Type (Jacketed) Real Exch.) Real Exch. (Yes or No.) Girth DBW H.T. No. R.T. Spot. Sectioned No. Efficiency B.T. State State No.) Type (Material) Thickness (Material) Thickness (Material) Thickness (Material) Real Exch. (No. (Nominal) Real Exch.) Real Exch. (Material) Thickness (Material) Real Exch. (No. (Nominal) Real Exch.) Real Exch. (No. (Nominal) Real Exch. (No. (Nominal) Real Exch.) Real Exch. (No. (Nominal) Real Exch.) Real Exch. (No. (Nominal) Real Exch. (No. (Nom	. Type Magt Kind Haat Eych Veseld No. 215 150 15		As required i	y the Frovisio	dis of the Aon	The Code Itales, De	CHOIL TIII, DIV.	131011 1	
Manufactured for Hercules, Incorporated (Name and address of Purchaser) Type Vert Kind (Tank, Jackserd Albeit Rech.) Voscol No. (2158-2) (State & State No.) Natl. Ed. No. 650 Yr. Built 197 ms 4-9 Incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of heat exchangers. SIELL: Material SA285GRC TS. 55000 Noninal Albovance In. Diam 2 Ft. 0. In. Longth 9-11-15 SIELL: Material SA285GRC TS. 55000 Noninal Albovance In. Diam 2 Ft. 0. In. Longth 9-11-15 SEAMS: Long DBW H.T. No R.T. Sp01 Sectioned No Efficiency 85 State No. (Vest or No.) HEAD S(a) Material Location of Thickness Realist Redhs: Redhs: Redhs: Committee of Complete Organical State (No.) Sp01 Sectioned No. (Spot or Complete) (Vest or No.) If removable, bolts used (Material) Thickness Realist Redhs:	Manufactured for Hercules Incorporated Milmington North Carolina	I. Manufactured by	Joseph (at & Sons	, Inc. (Name and add	Camder ress of Manufacture	New Jers	ey	
Type Vert Cirolitach Sund Heart Eych (State State No.) Natl Bd. No. 650 Yr. Built 197 (Institute State) (State State No.) Natl Bd. No. 650 Yr. Built 197 (Institute State) No. 197 (Institute State No.) Natl Bd. No. 650 Yr. Built 197 (Institute State No.) No. 670 (Institute State No.) No.	Type Vart North String Hear Eych Style (Tothis britt) Kind and, lackeed latel Exch.) Vissel No. (21562) (State & State No.) Natl. Bd. No. 650 Yr. Built 1972 (State & State No.) Natl. Bd. No. 650 Yr. Built 1972 (State & State No.) Natl. Bd. No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (State & State No.) No. 650 Yr. Built 1972 (Yes Or.) Thicknes 5/16ft. Allowance 1 In. Diam. 2 Ft.Q. In. Intent. 97t. In. 17 (Yes Or.) Thicknes 5/16ft. Allowance 1 In. Diam. 2 Ft.Q. In. Intent. 97t. In. 17 (Yes Or.) Thicknes 5/16ft. Allowance 1 In. Diam. 2 Ft.Q. In. Intent. 97t. In. 17 (Yes Or.) Thicknes 5/16ft. Allowance 1 In. Diam. 2 Ft.Q. In. Intent. 97t. In. 17 (Yes Or.) Thicknes 5/16ft. Allowance 1 In. Diam. 2 Ft.Q. In. Intent. 97t. In. 17 (Yes Or.) Thicknes 5/16ft. Allowance 1 In. Diam. 2 Ft.Q. In. Intent. 97t. In. 17 (Yes Or.) Thicknes 1 In. Allowance 1 In. Diam. 2 Ft.Q. In. Intent. 97t. In. 17 (Yes Or.) Thicknes 1 In. Allowance 1 In. In. Plp.Ing. (Welded, Bolited) In. Allowance 1 In.								
SHELL: Material SA24SERC (Kind and Spec. No. T.S. 55000 Nominal Mickness 16th, Allowance In. Diam. 2 Ft. Q. In. Length Srt. Th. Spot. (Spot or Complete) (Yes or No.) Thickness (Spot or Complete) (Yes or No.) Thickness (Spot or Complete) (Yes or No.) (Yes or No.) Thickness (Spot or Complete) (Yes or No.)	SHELL: Material SA285GRC (Kind and Spec. No. T.S. 55000 Nominal Thickness (Fig. of F. B. & Spec. Min. T.S.) SEAMS: Long (Welded, DBM) Wilderland (Welded, DBM) H.T. NO R.T. Spot Sectioned No (Yes or No) HEADS (a) Material Location (Top, bottom, ends) Thickness (Radius Radius Rad	Type Vert.	Kind Heat (Tank, Jac	Exch. keted,Heat Excl) Vessel No. (M	2158⇔2) ((State	& State No.)	Bd. No. 650	Yr. Built 197
SEAMS: Long (Wedded, bbis, Single, Lap, But) Girth DBW H.T. No R.T. Spot Spot Sectioned How Efficiency 9.7 (light or reverse side of form.) Girth DBW H.T. No R.T. Spot Spot Spot Spot Spot Spot Spot Spot	SEAMS Long Welded,Dbl.,Single,Lap,Butt Tollow R.T. Spot Sectioned May Sectione	tems 4-9 incl. to be comp	oleted for single	wall vessels (suc	h as air tanks), j	ackets of jacketed ve	essels, or shells of	heat exchangers.	1107
HEADS (c) Material Contion (Continue declared in the Continue declare	Constructed for max. allowable working press 175 psi at max. temp. 375°F. Constructed for inner chambers of jacketed vessels, or channels of heat exchangers. Cittal and Spec. No.) (Rid and Spec. No.	SHELL: Material SA (Kind a	285GRC and Spec. No.) DBW ,Dbl.,Single,Lap	T.S. 5500 (Fig.or F.B.& H.T. (Yes	No R.T	Thickness 5/16h. Spot Sector Complete)	Corrosion / 6.1. Allowance In. ctioned No (Yes or No	Diam. 2 Ft. Q In. Efficiency 85	Length 9FtIn. If riveted describe seams fully on reverse side of
HEADS (a) Material Location (Top, bottom, ends) Thickness Radius Diameter (Convex or Concave) (a) (b) Tremovable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch) STAYBOLTS: (Material) If hollow (Size of Hole) Attachment (Threaded, Welded) Attachment (Threaded, Welded) Pitch (Horiz.) X (Vert.) Diam. (Nominal) JACKET CLOSURE: (Describe as ogee & weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch) Hydrostatic Phospanisele-or—Test Hydrostatic Phospanisele-or—Test Phospan	HEADS (a) Material Crown Kaudius Crown K	Girth	DBM	нт	No RT	Spot See	tioned , NO No	of Courses 2	iorm.
(b) If removable, bolts used (Material) If hollow (Size of Hole) Attachment (Threaded, Welded) Pitch (Horiz) X (Vert.) Diam. (Nominal) JACKET CLOSURE: (Describe as ogse & weld, bar, etc. If bar, give dimensions, if bolted, describe as ogse & weld, bar, etc. If bar, give dimensions, if bolted, describe as ogse & weld, bar, etc. If bar, give dimensions, if bolted, describe as ogse & weld, bar, etc. If bar, give dimensions, if bolted, describe as ogse & weld, bar, etc. If bar, give dimensions, if bolted, described described by the described working press of the sections. It is a subject to the property of the sections of the section	(b)	. HEADS (a) Material Location	Thickness	Crown Knu	.S. Elliptic	_ (b) Material cal Conical o Apex Angle	Hemispherical Radius	Flat Sid	S de to Pressure_ vex or Concave)
STAYBOLTS: (Material) (Ma	Constructed for max. Constructed for max Constructed for max Constructed for max.	(a)							
STAYBOLTS: (Material) If hollow (Size of Hole) (Threaded, Welded) Pitch (Horiz.) X (Vert.) Diam. (Nominal) JACKET CLOSURE: (Describe as ogee & weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch) Hydrostatic Hydrostatic Press (Min. Temp.(when as a lowable working press) 175 psi at max. temp. 375°F. less than -20°) Test Hydrostatic Press (Welded, Bolted) Pressure (Welded, Bolted) Pressure (Welded, Bolted) Pressure) Press (Wind & Spec. No.) (Subject to Pressure) In. Attachment Welded (Welded, Bolted) Pressure) In. Attachment (Kind & Spec. No.) Diam. 1n. Thickness In. Attachment (Kind & Spec. No.) Diam. 1n. Thickness In. Attachment (Kind & Spec. No.) Pressure) Press (Kind & Spec. No.) Pressure) Pressure) Press (Kind & Spec. No.) Pressure) Pressure) Pressure) Press (Kind & Spec. No.) Pressure) Pressure) Pressure) Press (Kind & Spec. No.) Pressure) Pressure) Press (Kind & Spec. No.) Pressure) Pressure) Pressure) Pressure) Press (Kind & Spec. No.) Pressure) Pressure) Pressure) Press (Kind & Spec. No.) Pressure) Pressure) Pressure) Pressure) Press (Kind & Spec. No.) Pressure) Pressure) Pressure) Pressure Pressure) Pressure Press	Attachment (Threaded, Welded) Flock (Material) Flock (Moterial)	(b)							
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(Describe as ogee & weld, bar, etc. If bar, give dimensions, it folled, describe or sketch) Constructed for max. allowable working press 2 175 psi at max. temp. 375°F. less than -20°) esc. F. less than -20°) esc. F. less than -20°. Min. Temp(when see than -20°) esc. F. less than -20°) esc. F. less than -20°. Min. Temp(when see than -20°) esc. F. less than -20°) esc. F. less than -20°. Min. Temp(when see than -20°) esc. F. less than -20°) esc. F. less than -20°. Min. Thickness lin. Attachment less than -20°. Min. Attachment less than -20°. Medded, Bolted) Medded, Bolted) Medded, Bolted) Min. Lenn, when see than -20°. Medded, Bolted) Min. Lenn, when see than -20°. Min. Attachment less than -20°. Medded, Bolted) Min. Attachment less than -20°. Medded, Bolted) Min. Attachment less than -20°. Medded, Bolted) Min. Attachment less than -20°. Medded, Bolted) Min. Attachment less than -20°. Medded, Bolted less than -20°. Min. Attachment less than -20°. Min. Attachment less than -20°. Medded, Bolted less than -20°. Min. Attachment less than -20°. Medded, Bolted less than -20°. Medded, Bolted less than -20°. Medded, Bolted less than -20°. Min. Attachment less than -20°. Medded, Bolted less than -20°. Medded less than -20°. Medded, Bolted less than -20°. Medded less th	(Describe as ogee & weld, bar, etc. If bar, give dimensions, it bolted, describe or sketch) Allowable working press 2 175 psi at max. temp. 375°F. less than -20°)°F			ize of Hole)	chment (Thread	Pitch .	(Horiz.) X — (V	Pert.) Diam. (N	Iominal)
TUBE SHEETS: Stationary. Material SA240T304 Diam. 24 In. Thickness In. Attachment Welded (Welded, Bolted) Floating. Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded (Straight or U) TIBES: Material SA249TP304 T.S. T. S. T. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. T. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. T. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. T. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) Thickness In. Attachment In. Attachment In. Attachment In. Attachment In. Attachment In. A	TUBE SHEETS: Stationary, Material SA240T304 Diam. 24 In. Thickness In. Attachment Welded, Bolted) Floating. Material (Kind & Spec. No.) (Subject to Pressure) Floating. Material (Kind & Spec. No.) Diam. 1n. Thickness In. Attachment (Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 See Number 512 Type Straight (Straight or U) ems 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. SHELL Material SA240T304 T.S. 75000 Nominal (Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.) SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency 85 (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No) Girth Single H.T. No R.T. None Sectioned No No. of courses 21 (Single State		(Describe						
TUBE SHEETS: Stationary. Material SA240T304 Diam. 24 In. Thickness In. Attachment Welded (Welded, Bolted) Floating. Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded, Bolted) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness In. Attachment Welded (Straight or U) TIBES: Material SA249TP304 T.S. T. S. T. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. T. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. T. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. T. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) TUBES: Material SA240T304 T.S. Thickness In. Attachment Welded (Straight or U) Thickness In. Attachment In. Attachment In. Attachment In. Attachment In. Attachment In. A	TUBE SHEETS: Stationary. Material SA240T304 Diam. 24 In. Thickness In. Attachment Welded, Bolted) Floating. Material (Kind & Spec. No.) Floating. Material (Kind & Spec. No.) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 See Spec. Mumber 512 Type Straight Office of the straight of the special of	. Constructed for max.	2 175 p	si at max, temp.	375°F. less	n. Temp.(when sthan -20°)	-Pneumati	Test Press	262.5 psi.
Floating Material (Kind & Spec. No.) (Subject to Pressure) Floating Material (Kind & Spec. No.) TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 meters In. Attachment TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 meters In. Attachment TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 meters In. Attachment TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 meters In. Attachment TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 meters In. Attachment TUBES: Material SA249TB304 O.D. 3/4 In. Thickness In. Attachment TUBES: Material SA249TB304 O.D. 3/4 In. Thickness In. Attachment TUBES: Material SA249TB304 O.D. 3/4 In. Thickness In. Attachment TUBES: Material SA249TB304 O.D. 3/4 In. Thickness In. Attachment TUBES: Material SA249TB304 O.D. 3/4 In. Thickness In. Attachment TUBES: Material SA249TB304 O.D. 3/4 In. Thickness In. Attachment TUBES: Material SA249TB304 O.D. 3/4 In. Thickness In. Attachment To plant In. T	Floating. Material (Kind & Spec. No.) Floating. Material (Kind & Spec. No.) TUBES: Material (SA249TP304 O.D. 3/4 In. Thickness 18 spec. No.) Emis 12—15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. SHELL Material SA240T304 T.S. 75000 Thickness 16 n. Allowance 0 In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. (Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.) SEAMS: Long DBW H.T. No R.T. Spot. Sectioned No Efficiency (Vestor No.) (Spot or Complete) (Yes or No.) Girth SIngle H.T. No R.T. None Sectioned No No. of courses 2 If riveted describe seams fully on reverse side of form. Location WARA200T304 Radius Radius Radius Radius Radius Radius Proposition (Material Spec. No., T.S., Size, Number) (Constructed for max. allowable working press? 75 psi at max. temp. 375 °F. less than -20°) From the complete of the complete o	ems 10 and 11 to be com-	pleted for tube	sections.	-3-3-11	1-3	/1611		
TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 APGage Number 512 Type Straight (Straight or U) ms 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. SHELL Material SA240T304 T.S. 75000 Thickness 3/16 In. Allowance 0 In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency 85 (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No) Girth Single H.T. No R.T. None Sectioned No No. of courses 2 In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Sept. Sectioned No Efficiency 85 (Contact No No. of courses 2 In. Diam. 2 Ft. 0 In. Length 2 Ft. 8 In. Sept. Sectioned No No. of courses 2 In. Diam. 2 Ft. 0 In. Length 3 In. Sept. Sectioned No No. of courses 2 In. Diam. 2 Ft. 0 In. Length 3 In. Sept. Sectioned No No. of courses 2 In. Diam. 2 Ft. 0 In. Length 3 In. Sept. Sectioned No No. of courses 3 In. Sept. Section No. No. of courses 3 In. Sept. Section No. No. of courses 3 In. Sect. Sect. No. No. Section No. No. of courses 3 In. Sect. Sect. No. No. Section No. No. of courses 3 In. Sect. Sect. No. No. Section No. No. of courses 3 In. Sect. No. No. Section No. No. of courses 3 In. Sect. No. No. Section No. No. of courses 3 In. Sect. No. No. No. of courses 3 In. Sect. No. No. No. of courses 3 In. Sect. No. No. No. No. of courses 3 In. Sect. No. No. No. No. of courses 3 In. Sect. No. No. No. No. No. No. No. No. No. No	TUBES: Material SA249TP304 O.D. 3/4 In. Thickness 18 Jackson Spec. No.) ems 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. SHELL Material SA240T304 T.S. 75000 Thickness 3/16 In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance 0 In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency (Weided, DbL, Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No) Girth Single H.T. No R.T. None Sectioned No No. of courses 2 If riveted describe seams fully on reverse side of form Single Apparatus Radius Radius Radius Radius Radius Diameter (Convex or Concave) Top-baction; ends 1=1/8! Channel Floating If removable, bolts used (a) SA193 B7 28 3/4! 10UNC (Material, Spec. No., T.S., Size, Number) Constructed for max. allowable working press: 75 psi at max. temp. 375°F. Less than -20°) Fig. 1 Pipe Material Thickness Reinforcement Material Number Diam or Size Type Material Thickness Reinforcement How Attached Material Number Diam or Size Type Material Thickness Reinforcement How Attached Material M	TUBE SHEETS: Station	nary, Material(K	SA240T304 ind & Spec. No.	Diam 24) (Subject to Pr	In. Thickness essure)	In. Attachme	(Welded, Be	olted)
SHELL Material SA240T304 T.S. 75000 Nominal (Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.) SEAMS: Long DBW H.T. No. R.T. Spot. Sectioned No. Efficiency (Welded,Dbl,Single,Lap,Butt) (Yes or No.) (Spot or Complete) (Yes or No.) Girth Single H.T. No. R.T. None Sectioned No. No. of courses 2. If riveted describe seams fully on reverse side of form. HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Flat Diameter (Convex or Concave) Location WARA249T304 Radius Radius Radius Ratio Apex Angle Radius Diameter (Convex or Concave) Floating If removable, bolts used (a) SA193 B7 28 3/4" 10UNC (b) SA193 B7 28 3/4" 10UNC (c) Other fastening (Describe or Attach Sketch) Min. temp. (when less than -20°) Press 1125 psi. Min. temp. (when less than -20°) Press 1125 psi. Min. temp. (when less than -20°) Restriction In Piping Northern Material Nort	SHELL Material SA240T304 T.S. 75000 Nominal Thickness 716 nn. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency Side to Pressure (Correspondent) SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency Sectioned No No. of courses Circle State 1 Same T.S. (Cornell Hemispherical Radius Plantal) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Hemispherical Radius Plantal Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Flat Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Hemispherical Radius Plantal Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Hemispherical Radius Plantal Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Hemispherical Radius Plantal Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Plantal Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material SA285GRC T.S.55000(b) Material Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material SA285GRC T.S.55000(b) Material SA285GRC T.S.55000(b) Material SA285GRC T.S.55000(b) Material Diameter (Convex or Concave) HEADS (a) Material SA285GRC T.S.55000(b) Material SA285GRC T.S.5500(b) Material SA285GRC T.S.55000(b) Material SA285GRC T.S.5500(b) Material SA285G	Floatin	ng. Material(Ki	ind & Spec. No.	Diam	_ In. Thickness	_ In. Attachmen	nt	
SHELL Material SA240T304 T.S. 75000 Nominal Thickness 16 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Molward of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 2 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Length 1 Ft. 2 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corrosion Allowance of In. Diam. 2 Ft. 0 In. Corr	SHELL Material SA240T304 T.S. 75000 Norminal Thickness 3/16 in. Allowance 0 In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Min. Thickness 3/16 in. Allowance 0 In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Min. Thickness 3/16 in. Allowance 0 In. Diam. 2 Ft. 0 In. Length 1 Ft. 8 In. Min. Length 2 If riveted describe seams fully on reverse side of form. SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency 85							Type(Str	Straight aight or U)
SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency Girth Single, Lap, Butt) (Yes or No)¹ (Spot or Complete) (Yes or No) Girth Single H.T. No R.T. None Sectioned No No. of courses	SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency 85 % (Welded, Dbl., Single, Lap, Butt) (Yes or No)¹ (Spot or Complete) (Yes or No) Girth Single H.T. No R.T. None Sectioned No No. of courses 2 HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Hemispherical Flat Side to Pressure Radius Ratio Apex Angle Radius Side to Pressure (Convex or Concave) Top, bottom, ends 1=1/8¹¹	ems 12-15 incl. to be cor	mpleted for inne	er chambers of ja	acketed vessels,	or channels of heat	exchangers.		11 011
SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency Girth Single, Lap, Butt) (Yes or No)¹ (Spot or Complete) (Yes or No) Girth Single H.T. No R.T. None Sectioned No No. of courses	SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency 85 % (Welded, Dbl., Single, Lap, Butt) (Yes or No)¹ (Spot or Complete) (Yes or No) Girth Single H.T. No R.T. None Sectioned No No. of courses 2 HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Hemispherical Flat Side to Pressure Radius Pliptical Radius Radius Side to Pressure (Convex or Concave) Described to Pressure (Convex or Concave) Floating If removable, bolts used (a) SA193 B7 28 3/4¹¹ 10UNC (Material, Spec. No., T.S., Size, Number) (c) Other fastening (Describe or Attach Sketch) Hydrostatic Press 1125 psi. ems below to be completed for all vessels where applicable. SAFETY VALVE OUTLETS: Number Size Type Material Thickness Material How Attached Value of Contents of Contents of Contents of Contents (Material) Number Diam, or Size Type Material Thickness Material Attached Value of Contents (Material) Number Diam, or Size Type Material Thickness Material Attached Value of Contents (Material) Number Diam, or Size Type Material Thickness Material Attached Value of Contents (Material) Noutlet, Drain) Number Diam, or Size Type Material Thickness Material Attached Value of Contents (Material) Noutlet, Drain Number Diam, or Size Type Material Thickness Material Attached (Material) Attached (Material) Noutlet, Drain Nout	SHELL MaterialSA2	407304 T d and Spec. No.	7.S. 75000 (Fig. or F.B.	Nominal Thickness 3/ Spec. Min. T.S	Corrosion Allowance S.)	In. Diam. 2 F	t. OIn. Length	Ft. 8 In.
HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. (c) Material Hemispherical Conical Radius Plant	HEADS (a) Material SA285GRC T.S.55000(b) Material Same T.S. Conical Location Wife Care 1304 Radius R	. SEAMS: Long_(Welded,	DBW ,Dbl.,Single,Lap	H.T. No Butt) (Yes or 1	R.T. Spo No) ¹ (Spot or C	Complete) (Yes	Efficiency or No)	85_9	% scribe seams fully on re- verse side of
Top: bottom, ends Channel Floating If removable, bolts used (a) SA193 B7 28 3/4" 10UNC (b) SA193 B7 28 3/4" 10UNC (C) Other fastening Constructed for max. allowable working press? 75 psi at max. temp. 375°F. less than -20°) "F. Gombination Press 1125 psi. ms below to be completed for all vessels where applicable. SAFETY VALVE OUTLETS: Number Size Type Material NOZZLES urpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material A-B 2 4" Pipa SA312T304 SCH 40 None Welded C-D 2 4" SA53GRB " 11 11 11 11 11 11 11 11 11 11 11 11 1	Constructed for max. allowable working press? 75 psi at max. temp. 375°F.	GirthS	ingle	H.T. No	_R.TNon	Sectioned	No. of cour	ses	form.
Top: bottom, ends Channel Floating If removable, bolts used (a) SA193 B7 28 3/4" 10UNC (b) SA193 B7 28 3/4" 10UNC (C) Other fastening Constructed for max. allowable working press? 75 psi at max. temp. 375°F. less than -20°) "F. Gombination Press 1125 psi. ms below to be completed for all vessels where applicable. SAFETY VALVE OUTLETS: Number Size Type Material NOZZLES urpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material A-B 2 4" Pipa SA312T304 SCH 40 None Welded C-D 2 4" SA53GRB " 11 11 11 11 11 11 11 11 11 11 11 11 1	Constructed for max. allowable working press? 75 psi at max. temp. 375°F.	. HEADS (a) Material _S	A285GRC	T.S. 55000 own Knu	l(b) Material _ 3 ckle Ellipti	cal Conical	(c) Material Hemispherical	Flat	Side to Pressure
If removable, bolts used (a) SA193 B7 28 3/4" 10UNC (Material, Spec. No., T.S., Size, Number) (c) Other fastening (Describe or Attach Sketch) Hydrostatic Posturation of Fr. Constructed for max. allowable working press? 75 psi at max. temp. 375°F. less than -20°) "F. Test Gombination of Fress 1125 psi. Min. temp. (when less than -20°) "F. SAFETY VALVE OUTLETS: Number Size Location In Plping NOZZLES Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Attached Attached Plpa SA312T304 SCH 40 None Welded C-D 2 411 11 SA53GRB 11 11 11	If removable, bolts used (a) SA193 B7 28 3/4" 10UNC (b) SA193 B7 28 3/4" 10UNC (c) Other fastening (Describe or Attach Sketch) Hydrostatic Press Test Gembination Fress 1125 psi. Constructed for max. allowable working press? 75 psi at max. temp. 375°F. less than -20°) "F. Gembination Fress 1125 psi. Constructed for max. Size Location In Piping NOZZLES Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Thickness Material Attached) Channel	A249T304Ra 1/8" —	dius Rad	ius Rati	o Apex Angle	Radius	Diameter (C	onvex or Concave)
(c) Other fastening (c) Other fastening (Describe or Attach Sketch) Hydrostatic Press 1125 psi. Min. temp. (when less than -20°) F. Size Location In Piping NOZZLES Propose (Inlet, Outlet, Drain) A-B 2 4" Pipe SA312T304 SCH 40 None Welded C-D 2 4" SA53GRB "II III III	(c) Other fastening Constructed for max. allowable working press? 75 psi at max. temp. 375 °F. Min. temp. (when less than -20°) °F. Gombination Press 1125 psi. Ems below to be completed for all vessels where applicable. SAFETY VALVE OUTLETS: Number Size Location In Piping NOZZLES Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Thickness Material Attached	Floating	1/1 64105		2/11/10	INC (b) C	A192 B7	28 3/4"	LOUNC
Constructed for max. allowable working press? 75 psi at max. temp. 375 °F. Min. temp. (when less than -20°) - °F. Hydrostatic SAFETY VALVE OUTLETS: Number Size Location In Plping NOZZLES Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material A-B 2 4" Pipe SA312T304 SCH 40 None Welded C-D 2 4" SA53GRB " 11 11 11 11 11 11	Constructed for max. allowable working press? 75 psi at max. temp. 375 °F. Min. temp. (when less than -20°)	If removable, bolts use				99000000		EU - JI - 1	[0010
Constructed for max. allowable working press? 75 psi at max. temp. 375 °F. Min. temp. (when less than -20°)	Constructed for max. allowable working press? 75 psi at max. temp. 375°F. Min. temp. (when less than -20°) °F. Or F. O		(c)			Other i	(1		Sketch)
SAFETY VALVE OUTLETS: Number Size Location In Piping NOZZLES Purpose (Inlet, Outlet,Drain) Number Diam. or Size Type Material Thickness Material Attached A-B 2 4" Pipe SA312T304 SCH 40 None Welded C-D 2 4" SA53GRB " 11 11 11	SAFETY VALVE OUTLETS: Number Size Location In Piping NOZZLES Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Thickness Material Attached	Constructed for max. allowable working press	² 75 psi at n	nax. temp 37	Min. to		Dosny	Test	1125 psi.
NOZZLES Purpose (Inlet, Outlet,Drain) A-B C-D AND SIZE Type Material Number Pipe SA312T304 SCH 40 None Welded III SA53GRB III III III	NOZZLES Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Thickness Material Attached	ems below to be complete	ed for all vessels	where applicabl	e.				
Outlet, Drain) A-B 2 411 Pipe SA312T304 SCH 40 None Welded C-D 2 411 11 SA53GRB 11 11 11	Outlet, Drain) Number Diam. or Size Type Material Thickness Material Attached	NOZZLES	LETS: Number		Size _		Locat	P/W/134-2466	
C-D 2 411 11 SA53GRB 11 11	Mell I d IIII MILITIAL MAILE IN THE MAILE IN	Outlet, Drain) N	Number D					Material	Attached
	A D LINE BUTTER		2						
			<u> </u>		. 11		- 11	II	
							-		
						0 <u>-11-11-11-11-11-11-11-11-11-11-11-1</u>			

P.O. 026-57232-FC

EQU. No. E-6550-

(Over)

FORM U-1 (back)

18. INSPECTION Manholes, No	Size	Location_	Table Towns and the Control of the C	
OPENINGS: Handholes, No	Size	Location_		
Threaded, No. 2 - 1	Size 3/41	Location_	Shell & Cover	Shell_
19. SUPPORTS: Skirt No Lugs	(Number)	Legs (Number)	Other(Describe)	Attached Welded (Where & How
20. REMARKS:. Vessel is a DMT Loading				
the 1971 ASME Code Section	on VIII.			
Equip	ment No. E	-6550-4	-	
		\&' .		
(Brief description of purpose, of the vessel, as	Air Tonk After	Cooler Tecketed Cook	e ato State contents of ac	ah anat i
t.				
We certify that the statements made in this report a of this vessel conform to the ASME Code for Pressure	are correct and	that all details of de	sign, material, construct	ion, and workmanship
.5/			Bu di	Mala Lat
Date	loseph Oat	& Sons, Inc.	BNMWY 4	moune
Certificate of Authorization No				
Certificate of Authorization No.	— Expires—	14/31//3		
CERTIF	ICATE OF	SHOP INSPECTION	V	
VESSEL MADE BY Joseph Oat & Son				
I, the undersigned, holding a valid commission	Annual Section of the Control of the			CONTRACTOR OF THE PROPERTY.
the State or Province N. J. and emp	and the second second		The second secon	ACTION AND AND ADDRESS OF SECOND
New York, New York				
dete second on	10 79	inspected the pressure	vesser described in this n	ianuracturer's
data report on turer has constructed this pressure vessel in ac- Code.	cordance with t	he applicable sections	of the ASME Boiler and Pro	ssure Vessel
By signing this certificate neither the Inspect pressure vessel described in this manufacturer's in any manner for any personal injury or proper	data report. Fu	rthermore, neither the In	spector nor his employer s	hall be liable
Date		**************************************	•	
		/		
Wanting & Hame	Cit Commis	sions N.B.	6900	
Inspectors Signature	Commission	Nat'l Box	ard, State, Province and No.	
-				
CERTIFICATE	OF FIELD	ASSEMBLY INSPE	CTION	
I, the undersigned, holding a valid commission				ectors and/or
the State or Province and empl				of
			nts in this manufacturer's	
with the described pressure vessel and state that	121 121 12112	Mills (M)		
with the described pressure vessel and state that not included in the certificate of shop inspection the manufacturer has constructed and assembled	on have been in this pressure	nspected by me and tha vessel in accordance w	t to the best of my knowled th the applicable sections	lge and belief of the ASME
Boiler and Pressure Vessel Code. The described v			William State Company	1
By signing this certificate neither the Inspect pressure vessel described in this manufacturer's in any manner for any personal injury or propert	data report. Fu	rthermore, neither the In	spector nor his employer s	hall be liable
	The second secon	**************************************		
Date				

Nat'l Board, State, Province and No.

Commissions

Inspector's Signature